IN THE CLAIMS

Kindly amend the claims, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents, as follows:

- 1. (Currently Amended) A conductive industrial fabric engineered fabric used in making nonwoven textiles in the airlaid, meltblown or spunbonding processes comprising a plurality of polymeric filaments having one or more C-shaped grooves with a mouth having a width less than the width of a central portion of the groove formed therein, wherein each filament includes electrically conductive polymer material incorporated as either a blend or a coating that substantially fills the C-shaped grooves, said conductive fabric having static dissipation properties comparable to metal-based fabrics whilst being resistant to dents and creases and wherein the one or more C-shaped grooves allow for continued exposure of the conductive polymer to the filament surface as the monofilament wears so that the filament retains its conductivity.
- 2. (Original) The fabric in accordance with claim 1, wherein the functional filaments constitute between five and one hundred percent of the fabric.
- 3. (Original) The fabric in accordance with claim 1, wherein the fabric has static dissipation properties equivalent to metal-based fabrics whilst also having physical properties comparable to non-conductive synthetic fabrics.

- 4. (Original) The fabric in accordance with claim 3, wherein said physical properties include one of modulus, tenacity, strength, adhesion, abrasion resistance, and durability.
- 5. (Withdrawn) The fabric in accordance with claim 1, wherein the filament comprises conductive polymer material blended with polymeric materials that can be oriented.
- 6. (Withdrawn) The fabric in accordance with claim 1, wherein the filament is a bicomponent fiber containing conductive polymer material and formed by melt extrusion.
- 7. (Original) The fabric in accordance with claim 1, wherein the filament comprises an oriented structure coated with conductive polymer material.
- 8. (Original) The fabric in accordance with claim 7, wherein the conductive polymer is applied by one of dip coating, spraying from solutions, dispersion over the filament, and thermal spraying.
- 9. (Original) The fabric in accordance with claim 1, wherein the filament comprises one hundred percent conductive polymer material selected from the class of polyanilines.
- 10. (Original) The fabric in accordance with claim 9, wherein said polyaniline filament has physical properties comparable to a polyamide filament.

- 11. (Original) The fabric in accordance with claim 1, wherein the filament is a lobed monofilament coated with conductive polymer material.
- 12. (Previously Presented) The fabric in accordance with claim 11, wherein the coating has a conductivity, minimally greater than 10⁻³ S/cm, whilst maintaining the physical and tribological properties of the core monofilament.
- 13. (Previously Presented) The fabric in accordance with claim 11, wherein the shape of the one or more C-shaped grooves provide a mechanical interlock between the monofilament and the conductive polymer filling the grooves.
- 14. (Original) The fabric in accordance with claim 13, wherein the interlock reduces a need for adhesion of the conductive polymer to the monofilament.
 - 15. (Canceled).
- 16. (Previously Presented) The fabric in accordance with claim 13, wherein positioning of the conductive polymer in the C-shaped grooves shields the polymer and reduces the impact of its lesser abrasion resistance and physical properties.
- 17. (Original) The fabric in accordance with claim 11, wherein the weight composition of the conductive material is ten percent or less of the total weight of the coated monofilament.

- 18. (Canceled).
- 19. (Original) The fabric in accordance with claim 1, wherein the fabric is single layered, multi layered, or laminated.
- 20. (Original) The fabric in accordance with claim 1, wherein the fabric is one of woven, nonwoven, spiral-link, MD or CD yarn arrays, knitted fabric, extruded mesh, and spiral wound strips of woven and nonwoven materials comprising yarns including monofilaments, plied monofilaments, multifilaments, plied multifilaments and staple fibers.
 - 21. (Canceled).
- 22. (Original) The fabric in accordance with claim 1, wherein the fabric is used in a dry application in which static dissipation is required through a belting media.
- 23. (Original) The fabric in accordance with claim 1, wherein the conductive polymer is one of polyacetylene (PA), polythiophene (PT), poly3alkyl-thiophene) (P3AT), polypyrrole (Ppy), poly-isothianaphthene (PITN), poly(ethylene dioxythiophene (PEDOT), alkoxy-substituted poly(para-phenylene vinylene) (PPV), poly(para-phenylene vinylene) (PPV), poly(2,5-dialkoxy-para-phenylene), poly(paraphenylene) (PPP), ladder-type poly(paraphenylene) (LPPP), poly(para-phenylene) sulfide (PPS), polyheptadiyne(PHT), and poly(3-hexyl thiophene) (P3HT).

- 24. (Currently Amended) An engineered fabric Ppolymeric filament for use in an industrial fabric said polymeric filament having one or more C-shaped grooves with a mouth having a width less than the width of a central portion of the groove, wherein said C-shaped grooves are substantially filled with electrically conductive polymer material mechanically locked in place and wherein the one or more C-shaped grooves allow for continued exposure of the conductive polymer to the filament surface as the monofilament wears so that the filament retains its conductivity.
- 25. (Withdrawn) The filament in accordance with claim 24, wherein the filament comprises conductive polymer material blended with polymeric materials that can be oriented.
- 26. (Withdrawn) The filament in accordance with claim 24, wherein the filament is a bicomponent fiber containing conductive polymer material and formed by melt extrusion.
- 27. (Original) The filament in accordance with claim 24, wherein the filament comprises an oriented structure coated with conductive polymer material.
- 28. (Original) The filament in accordance with claim 27, wherein the conductive polymer is applied by one of dip coating, spraying from solutions, dispersion over the filament, and thermal spraying.

- 29. (Original) The filament in accordance with claim 24, wherein the filament comprises one hundred percent conductive polymer material selected from the class of polyanilines.
- 30. (Original) The filament in accordance with claim 29, wherein said polyaniline filament has physical properties comparable to a polyamide filament.
- 31. (Original) The filament in accordance with claim 24, wherein the filament is a lobed monofilament coated with conductive polymer material.
- 32. (Previously Presented) The filament in accordance with claim 31, wherein the coating has a conductivity, minimally greater than 10⁻³ S/cm, whilst maintaining the physical and tribological properties of the core monofilament.
- 33. (Previously Presented) The filament in accordance with claim 31, wherein the shape of the C-shaped grooves provide a mechanical interlock between the monofilament and the conductive polymer filling the grooves.
- 34. (Original) The filament in accordance with claim 33, wherein the interlock reduces a need for adhesion of the conductive polymer to the monofilament.
 - 35. (Canceled).

- 36. (Previously Presented) The filament in accordance with claim 33, wherein positioning of the conductive polymer in the C-shaped grooves shields the polymer and reduces the impact of its lesser abrasion resistance and physical properties.
- 37. (Original) The filament in accordance with claim 31, wherein the weight composition of the conductive material is ten percent or less of the total weight of the coated monofilament.
- 38. (Original) The filament in accordance with claim 24, wherein the conductive polymer is one of polyacetylene (PA), polythiophene (PT), poly3alkyl-thiophene) (P3AT), polypyrrole (Ppy), poly-isothia-naphthene (PITN), poly(ethylene dioxythiophene (PEDOT), alkoxy-substituted poly(para-phenylene vinylene) (PPV), poly(para-phenylene vinylene) (PPV), poly(2,5-dialkoxy-para-phenylene), poly(para-phenylene) (PPP), ladder-type poly(para-phenylene) (LPPP), poly(para-phenylene) sulfide (PPS), polyheptadiyne(PHT), and poly(3-hexyl thiophene) (P3HT).
- 39. (Previously Presented) The fabric in accordance with claim 11, wherein the coating has a conductivity greater than 10^3 S/cm, whilst maintaining the physical and tribological properties of the core monofilament.
- 40. (Previously Presented) The fabric in accordance with claim 31, wherein the coating has a conductivity greater than 10³ S/cm, whilst maintaining the physical and tribological properties of the core monofilament.